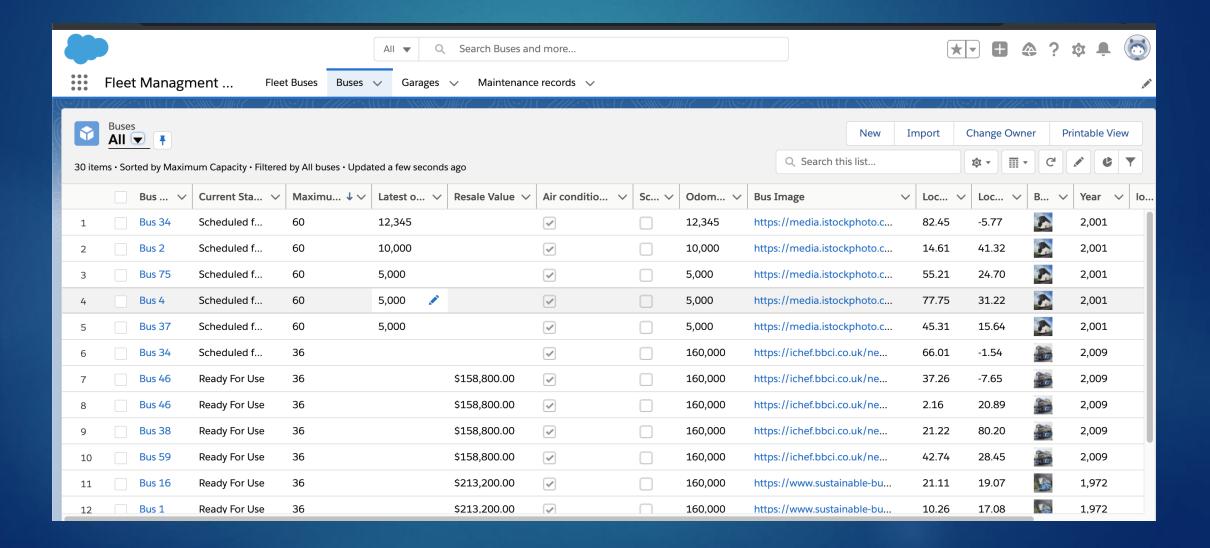
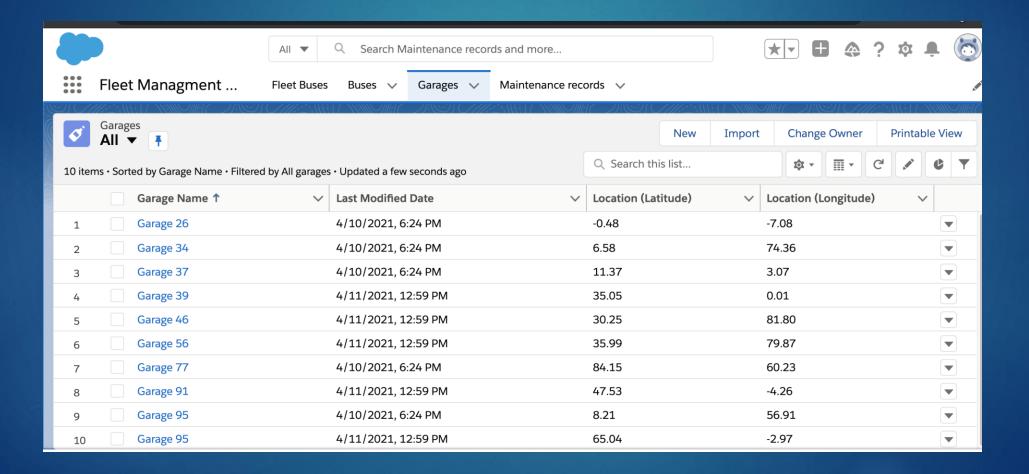
Fleet Management Systems

BY ARADHIKA

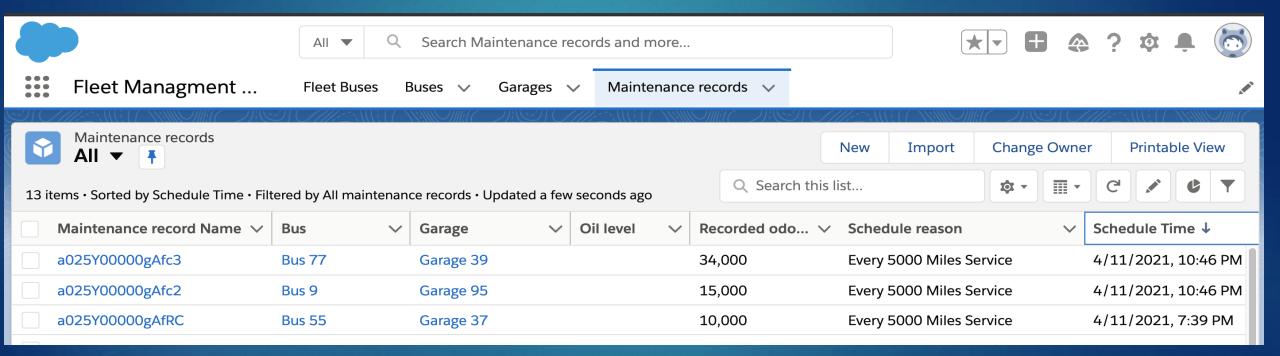
Custom Object - Bus



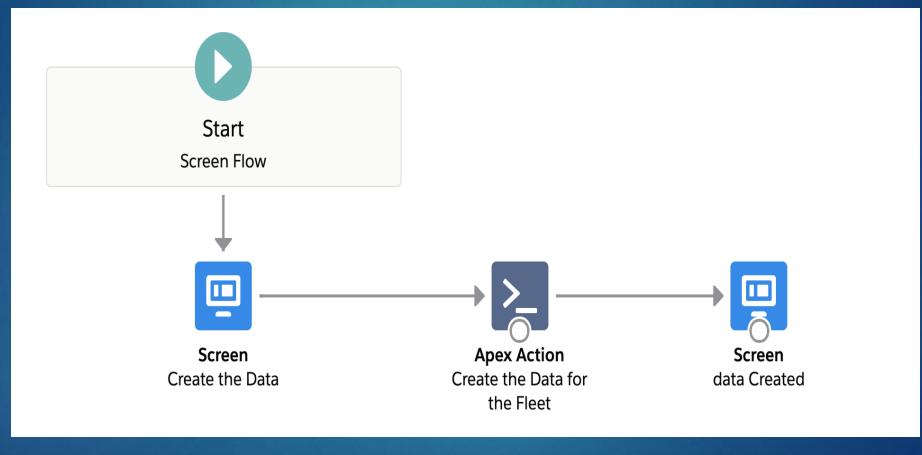
Custom Object - Garage



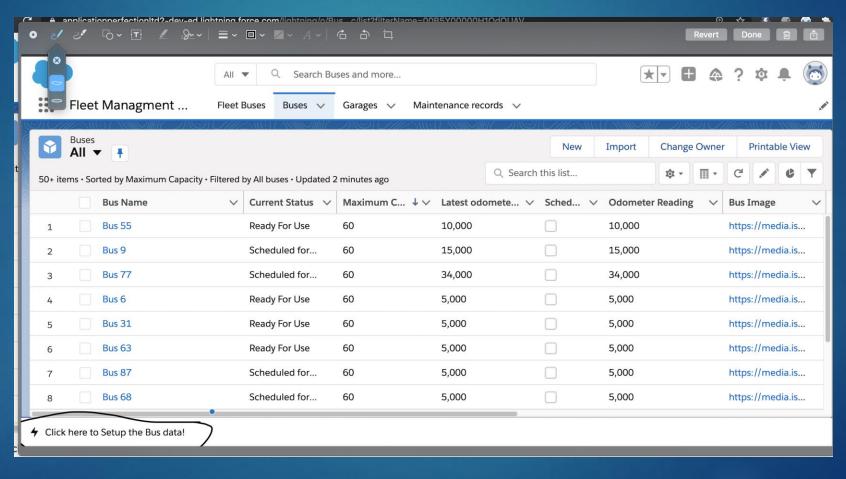
Custom Object - Maintenance records



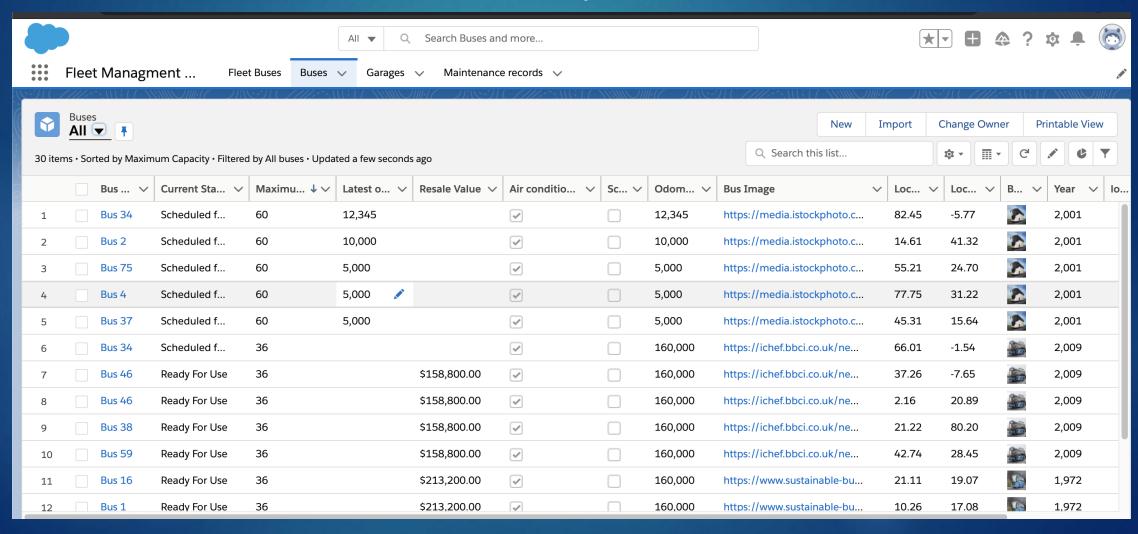
Flow for the creation of data is provided and attached as utility bar



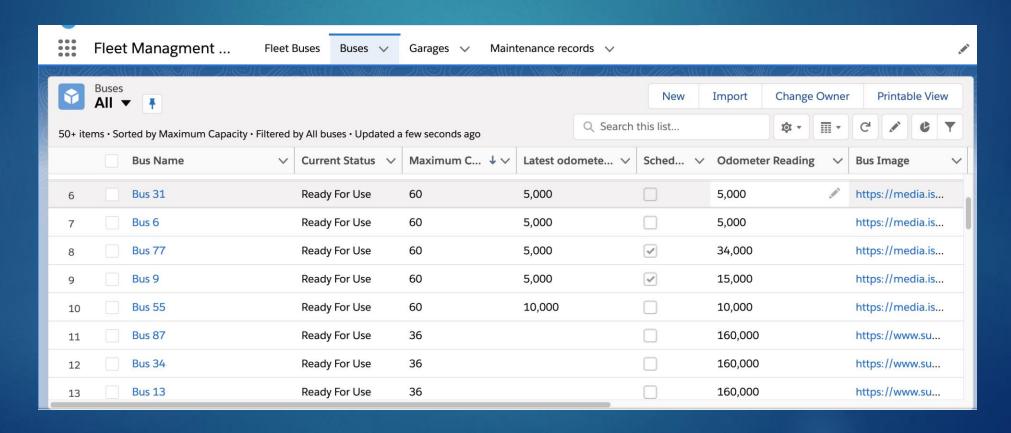
Flow for the creation of data is provided as utility bar shown below



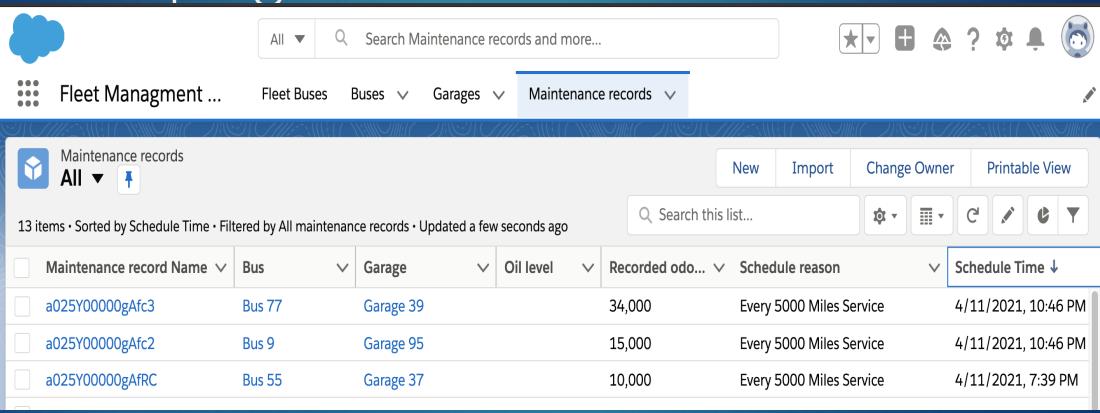
Resale values calculated as soon as data created or edited for bus by trigger for bus with 24 and 36 seat with current status 'Ready for use'



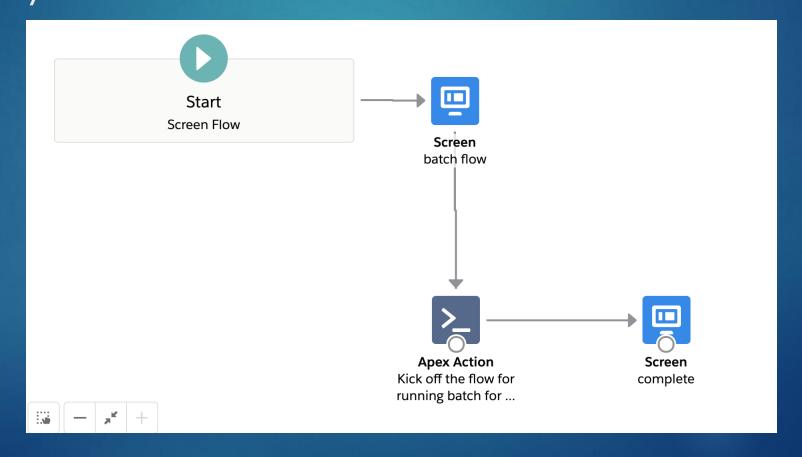
Buses ready to be scheduled for maintenance every 5000 miles, formula field schedule bus for service will be checked will be picked up by the batch fiele



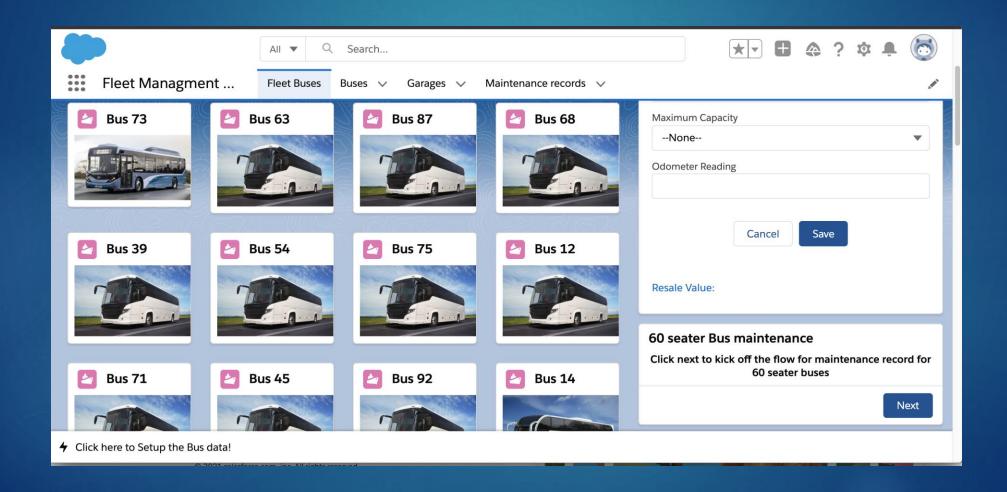
Maintenance records got created when Batch program ran or scheduled.



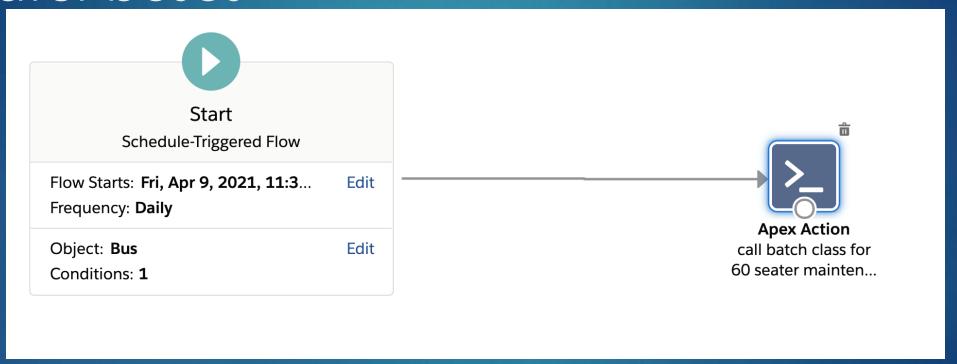
One another flow is placed on the main App page to kick off the batch file manually for creating maintenance records for 60 seater buses for every 5000miles



Batch file flow is added on App Page

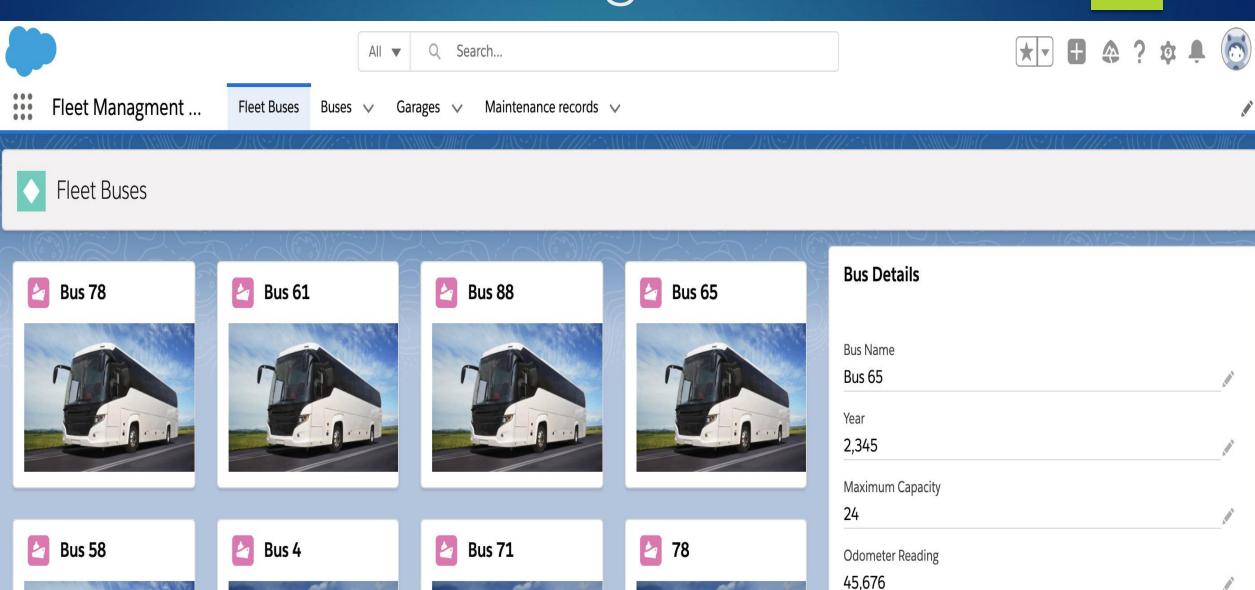


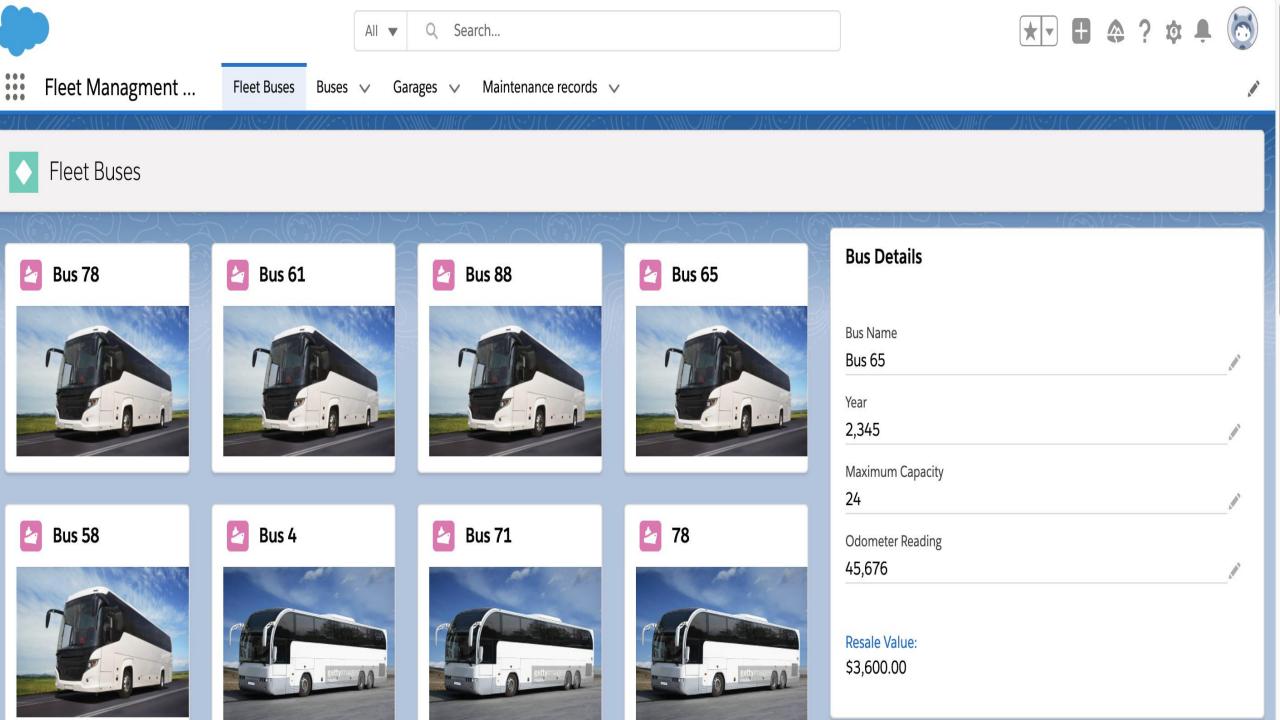
A Schedule flow is created to schedule maintenance every 5000 miles for 60 seater buses



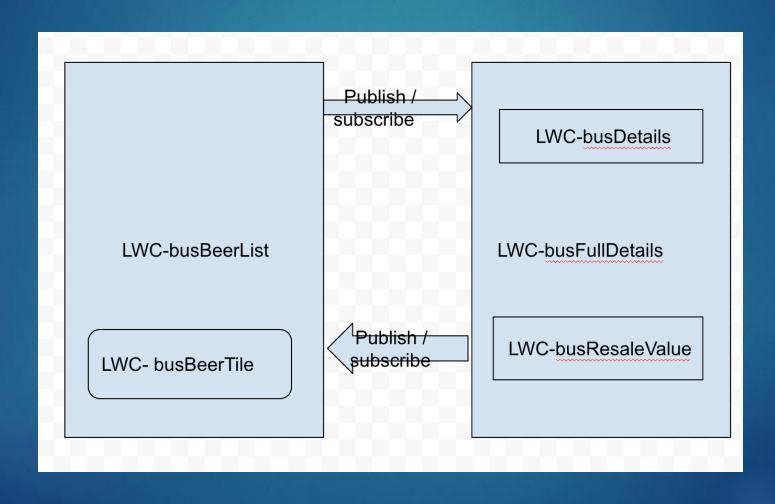


Fleet Bus Page with LWCs





LWC layout and Lightning message service

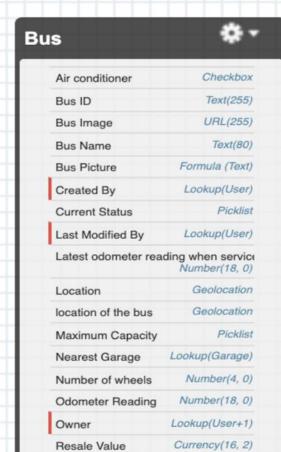


Steps to Install the app, Fleet Management system into a Developer Edition Orgor a Trailhead Playground

- 1. git clone https://github.com/aradhikachawla/FleetManagement
- 2. cd FleetManagement
- 3. sfdx auth:web:login -s -a mydevorg
- 4. sfdx force:source:deploy -p force-app
- 5. sfdx force:user:permset:assign -n FleetManagement
- 6. Open the org and select the app 'Fleet Management system' from App Launcher
- 7. Click on Fleet buses
- 8. Click on bottom 'Click here to setup the Bus Data' to setup some data and refresh the page
- 9. Data should be dispalyed on Fleet Buses page, when clicked on any bus tile, details should appear on right side and you should be able to save the record and edits should reflect on the left side Buses List

- Question 1 ER Diagram (included below in Presentation)
- Question 2 Apex Trigger
 - CalculateResaleValue
 - CalculateResaleValueHelper
 - CalculateResaleValueTest
- Question 3
- App 'Fleet Management Systems'
 - Lightning Page Fleet Buses
 - ▶ LWC busBeerList, BusBeerTile, busFullDetail, busDetail, busResaleTile
 - Apex Class LWCController
- Question 4 Batch File / Schedulable file
 - BatchClassForMaintananceNew
 - BatchMainClassNew
 - MaintenanceSchedulableClass
 - MaintenanceSchedulableClassTest
 - ► Flow Schedule flow for nightly job
 - ▶ Flow 60 seater Bus maintenance
- Note: Data Creation flow has been created for Bus and Garage and added Flow Create the Data.

Question 1- ER Diagram



Schedule for service

Year

Formula (Checkbox)
Number(4, 0)

Maintenance record

Braking fluid level	Text(255)	
Bus	Lookup(Bus)	
Created By	Lookup(User)	
Garage	Lookup(Garage)	
Last Modified By	Lookup(User)	
Maintenance record	Name Text(80)	
Oil level	Text(255)	
Owner	Lookup(User+1)	
Recorded odometer	Number(18, 0)	
Schedule reason Long	Text Area(32768)	
Schedule Time	Date/Time	
Tire conditions	Text(255)	

Street, Street,		
ra		_
	_	

Created By	Lookup(User)	
Garage ID	Text(255)	
Garage Name	Text(80)	
Last Modified By	Lookup(User)	
Location	Geolocation	
Owner	Lookup(User+1)	

***** •

Few Test classes are also made

- CalculateResaleValueTest
- MaintenanceSchedulableClassTest